

2015 Defense Health Information Technology Symposium

Joint Legacy Viewer: Displaying DoD/VA Health Records at Joint Centers



"Medically Ready Force...Ready Medical Force"

“A joint, integrated, premier system of health, supporting those who serve in the defense of our country.”



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Learning Objectives



- Discuss a historic perspective of the Joint Legacy Viewer
- Identify the lessons learned from the process of developing the Joint Legacy Viewer
- Identify the successes, challenges and opportunities that exist in collaboration interagency software development and deployment
- Describe other currently available enterprise viewers such as, BHIE AHLTA, BHIE Share and VLER and their current uses as well as their roadmap to collapse into JLV

Agenda



- JANUS
- DoD and VA Guidance
- JLV Overview
- Joint Releases
- Benefits and Challenges
- Lessons Learned
- Other Enterprise Viewers

JANUS – The Beginning



- 2001 – 2003 ‘JANUS’ was developed jointly by Tripler Army Medical Center and the VA Pacific Islands Health Care Systems
 - **Purpose:** Improve interoperability between the two facilities
 - Supported and funded by Senator Inouye as a **joint DoD-VA venture**
- 2003 – 2011 continued improvements of “JANUS”
- 2012: Implemented JANUS at James A Lovell Federal Health Care Center



Joint Enterprise Direction



On February 5, 2013, the Secretary of Defense and Secretary of Veterans Affairs directed the Department of Defense (DoD) / Department of Veterans Affairs (VA) Interagency Program Office (IPO) to “... focus our immediate efforts on integrating VA and DoD health data as quickly as possible, by focusing on interoperability...” through implementing a set of near term “Accelerators” that:



Enhance Data Interoperability via standardized health data exchange



Deploy Joint Legacy Viewer (JLV) to additional sites



Establish single medical enclave (i.e., Med-COI) for data transport

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What is the Joint Legacy Viewer?



Browser based graphical user interface (GUI)



Provides an integrated read-only view of electronic health record data from the Department of Defense (DoD) and the Veteran Affairs (VA) systems



Eliminates the need for VA or DoD clinicians to access separate viewers to obtain specific patient information from the other department



JLV accesses and displays native and normalized data via mini portlets called widgets

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A View of the Joint Legacy Viewer



JLV powered by Janus

Patient search:

System Status Logout ?

CHDRZZTESTPATIENT, CHDRONE

Notes Notes 3yr Notes Long Search All All 3yr All Long Search

[AHITA](#)
[ANG](#)
[ASH](#)
[CHA](#)
[ELP](#)
[ERI](#)
[FNC](#)
[GRU](#)

CHDRZZTESTPATIENT, CHDRONE

CA
Rank: Captain O3-A
FMP: 20/666000001

EDID: 1463132140
DOI: 03 Mar 1960
Race: Unknown Race
(h):
(w):
Gender: M

[Insurance](#)

Allergies (59)

Allergen	Site
ACETIC ACID (ACETIC ACID)	DoD
Albuterol	DoD
ALBUTEROL	ELP
ALLERCLEAR (LORATADINE)	DoD
ALOE VERA	ELP
Aloe Vera (Do Not Use, Not Screened)	DoD
ALOE VERA W/LIDOCAINE	DoD

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Lab Orders / Panel Results (5)

Collection Date	Order / Results	Site
Aug 14, 2014	POTASSIUM plasma	RIC
May 16, 2013	CULTURE & SUSCEPTIBILITY	STX
May 16, 2013	CULTURE & SUSCEPTIBILITY	STX
May 13, 2013	C&S CULTURES	STL
May 13, 2013	C&S URINE	STL

Problem List (46)

ICD9	Onset	Problem Description	Updated	Status	Site
250.00	Unknown	DIABETES MELLITUS	Apr 13, 2015	Active	DoD
305.02	Jan 01, 2011	Alcohol abuse, episodic drinking behavior (ICD-9-CM 305.02)	Mar 13, 2015	ACTIVE	SDC
276.1	Unknown	Hyponatremia (SCT 89622008)	Feb 13, 2015	ACTIVE	SDC
296.22	Unknown	MAJOR DEPRESSION SINGLE EPISODE MODERATE	Jan 27, 2015	Active	DoD
173.90	Unknown	SKIN NEOPLASM MALIGNANT	Dec 10, 2014	Active	DoD
216.9	Unknown	BENIGN SKIN NEOPLASM	Dec 10, 2014	Active	DoD
	Nov 15, 2013	ACUTE MYOCARDITIS	Aug 04, 2014	Inactive	DoD
	Unknown	CORONARY ARTERY DISEASE	May 13, 2014	Active	DoD
V68.1	Unknown	visit for issue repeat prescription	May 13, 2014	Inactive	DoD
	Unknown	NASAL CYST	Dec 18, 2013	Inactive	DoD

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Outpatient Medications (1)

Last Fill	Prescription	Status	Expires	Site
Jun 08, 2015	NON-VA ASPRIN (ENTERIC-COATED) TAB,EC	ACTIVE		CHA

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Lab Results (15)

Date	Lab Test	Result	Site
Aug 14, 2014	Potassium	7	RIC
Aug 06, 2013	AMYLASE	47	SDC
Aug 06, 2013	SERUM UREA NITROGEN	18	SDC
May 16, 2013	HIV 1/2	NEGATIVE	STX
May 16, 2013	AST	45	STX
May 16, 2013	WBC	15.2	STX

Radiology Exams (2)

Date	Exam	Image	Site
Sep 09, 2012	HAND 1 OR 2 VIEWS		RIC
Sep 09, 2012	CHEST SINGLE VIEW		RIC

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Joint Legacy Viewer Benefits and Features



Benefits

- More complete understanding of patient health status
- Significant improvement in latency and system efficiency as compared to existing viewers
- Supports multiple workflows for Veterans Health Administration, Veterans Benefits Administration, and DoD users
- Reduces printing, scanning and faxing of paper records

Features

- Delivers health data from multiple data sources such as CHCS, VistA, and the CDR
- Displays normalized data for clinical domains
- Easy-to-learn, intuitive user interface
- 508 certified
- User-configurable to match varied workflows



Completed Joint Releases



Data Federation Release 0 December 31, 2013

- JLV access provided to all directed sites by July 31, 2013
- Clinical Terminology Processing that correlates standardized and normalized VA and DoD data for 7 data domains
- VistA Data Service upgrade to access standardized DoD patient data for 7 data domains
- Data Management Service to allow VA and DoD Clinicians to access federated data
- JLV Widgets that provide a standardized view for 7 data domains
- Support an expanded user base: 50 DoD users+ 175 VA users = 225 total users

Data Federation Release 1 September 30, 2014

- Supports NDAA interoperability Mandate
 - Added capability for 8 additional data domains
- Incorporate a more robust DoD access control capability
- Incorporate additional “Break the Glass” feature and controls for VBA users
- Address 33 FAC approved bug fixes carried over from DF R0 release
- Address remaining security vulnerabilities
- Support an expanded user base
 - 1000 DoD + 2500 VA = 3500 total users
- Upgrade to infrastructure to support performance and capacity

Completed Joint Releases Continued



DMIX Patch December 11, 2014

- Block DoD users from viewing VA immunization data and add a banner to reflect VA data is not complete
- Address 3 bug fixes carried over from DF R1
- Add Immunization Terminology Maps for VA
- Configure BHIE DoD Adaptor to a multi-server configuration in order to spit out “encounter notes” processing

DMIX Release 2 March 21, 2015

- Add 4 new data domains, 2 new widgets, and display standardized terms for 4 existing data domains
- Place JLV link into the AHLTA Client Menu and ensure patient context retention when JLV is accessed through AHLTA
- Add patient search by EDIPI and block any patients on the “blacklist” from displaying in JLV

Future Joint Releases



DMIX Release 3 September 19, 2015

- Collapse DoD Viewers (VLER, BHIE-SHARE and BHIE-AHLTA)
- Combine the Adaptors (BDA and VLER) to retrieve electronic health data from the DoD and VA data stores
- Break The Glass - Sensitive Notes
- ICD-10 compatible
- Access control enabled by the MTFs
- Authorization review enhancements

FY 16 Plan

- Implement approved provider view requirements
- Inclusion of required HAIMS capability
- Quarterly updates of IPO certified data maps
- Address findings from the Operational Test
- Upgrade data terminology service to support objective data sharing architecture and DHMSM
- Software maintenance updates to address performance, security, and ONC related interoperability requirements
- Support VA VistA evolution testing
- Support DHMSM IOC integration and testing in Pacific Northwest

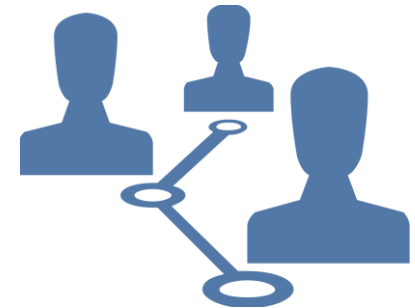
Challenges of Joint Development

- Process for development and approval of Service Level Agreements or Memorandum of Understanding can be lengthy and must be in place prior to starting any work
- Partners have different missions making prioritization of capabilities challenging
- Funding can not be easily exchanged between Departments
- Establishment of a joint test environment is complex
 - Establish test data both departments can use
 - Connectivity between test environments
 - External partner connections (i.e. DMDC)



Benefits of Joint Development

- Allows for a more robust set of requirements that meet both DoD and VA Department needs
- Functional Subject Matter Experts (SMEs) from both Departments are incorporated into the entire Software Development lifecycle process to ensure intended outcomes are reached
- Inter-Departmental Testing and SME defect adjudication completed prior to production implementation
- Development of training that supports both Departments
- Fielding Decision Reviews for production implementation includes Departmental, Functional, DoD, and VA approval



Lessons Learned



- Interagency work can be done successfully with decreased cost
- Positive relationships between Department SMEs, IT staff, and support staff can be forged and maintained
- Working jointly benefits the patient as well as the provider by simplifying administrative and technical overhead
- Providers have a better understanding of the other Department's process and requirement needs
- Transparency of project objectives and timelines for each Department shorten the lengthy development and implementation process

In a recent survey, a DoD user stated:



“JLV saved the day this morning for a Soldier getting most of his care at a VA facility in Colorado – we had no idea about the severity of his illness until we reviewed the VA notes.”



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Summary of Joint Legacy Viewer



- JLV was directed by the SecDef and Sec VA in early 2013
 - Support interoperability between the two Departments
 - Born from a joint DoD-VA venture called JANUS
- JLV is a viewer used by DoD and VA providers to review patient medical history with data from DoD and VA
- Jointly developed applications supporting the goal of interoperability benefits both Departments
 - Provides continuity of patient information

Other Enterprise Viewers

(not meant to be an all-inclusive list)

- Bi-directional Health Information Exchange AHLTA (BHIE AHLTA)
- Bi-directional Health Information Exchange (BHIE) Share
- Virtual Lifetime Electronic Record (VLER)



DHA HIT continues to evaluate its viewers and their potential to be consolidated.

Speaker Information

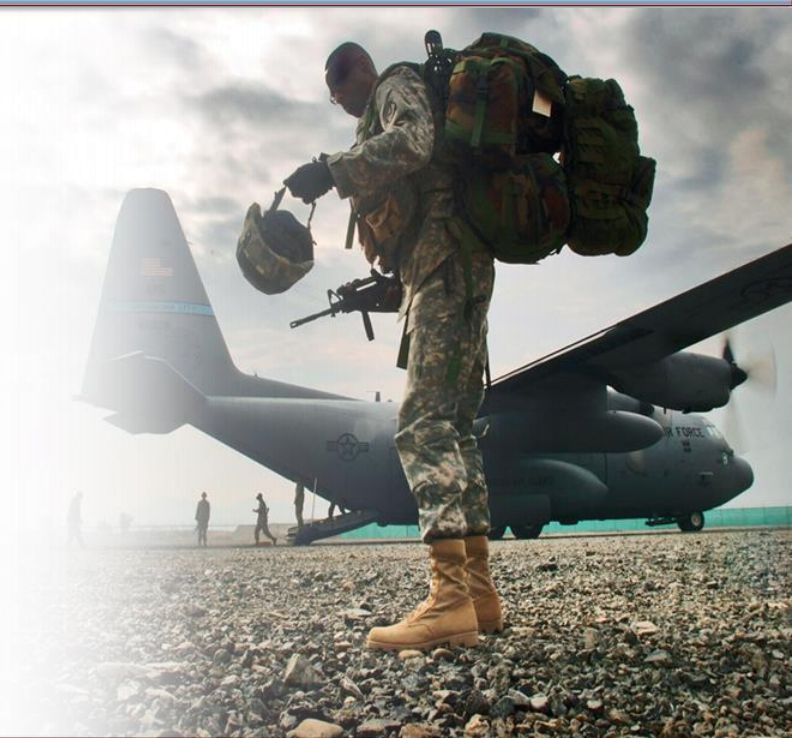


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Questions?



JLV Training and Support

Web-based training is available
<https://ehrknowex.com/groups/dmix>

Introductory 5 minute You Tube Video
<https://www.youtube.com/watch?v=yPNBw2XpXqc>

Help Desk Support is provided by the DHA Global Service Desk
[1-800-600-9332](tel:1-800-600-9332)

Please complete your evaluations

Back-up Slides



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Accessing JLV in AHLTA

- DoD providers are able to access JLV via a new JLV folder within AHLTA folder list
 - Provides single sign on between AHLTA and JLV requiring no additional username/password entry by the user
 - Provides patient context between AHLTA and JLV
- Before Sept 2015, providers must be approved by the Services and be provided the JLV “key” in order to access JLV via the AHLTA folder list
- After Sept 2015, the site will control providing the JLV “key” for local providers to access to JLV via the AHLTA folder list

